

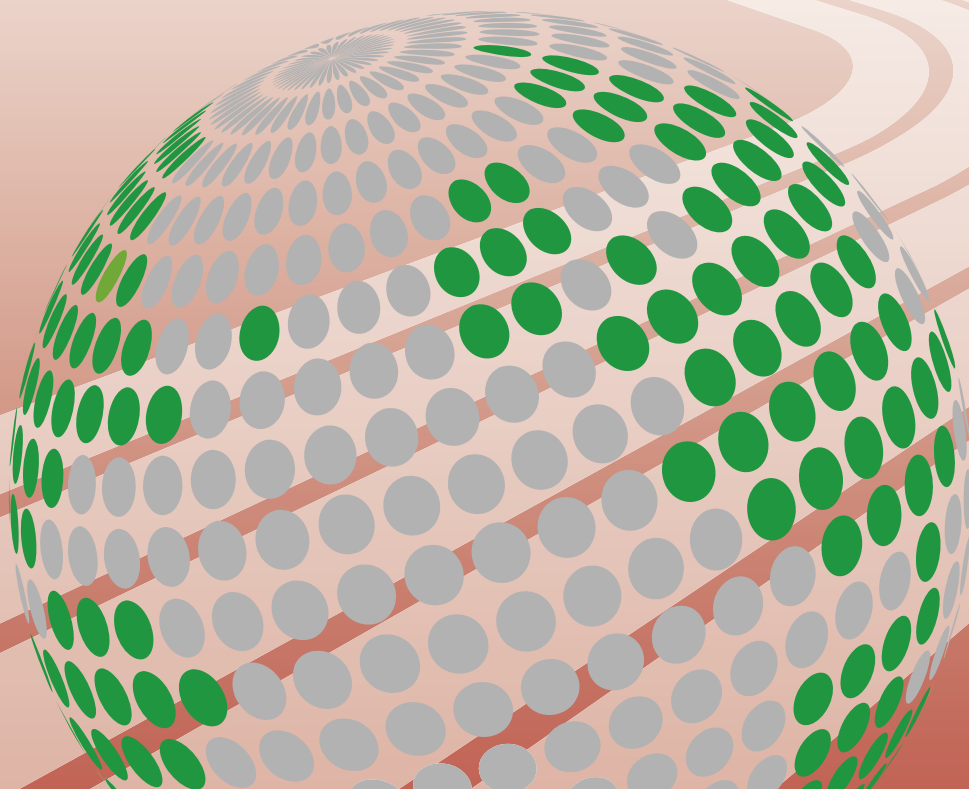
# SPEN BEARINGS

Bearing and Oilseal Specialists  
Power Transmission Engineers



## The Engineer's ToolKit

### FLUID POWER



**Cleckheaton Head office T:** 01274 851700

**Keighley T:** 01535 606421

**Leeds T:** 0113 2865415

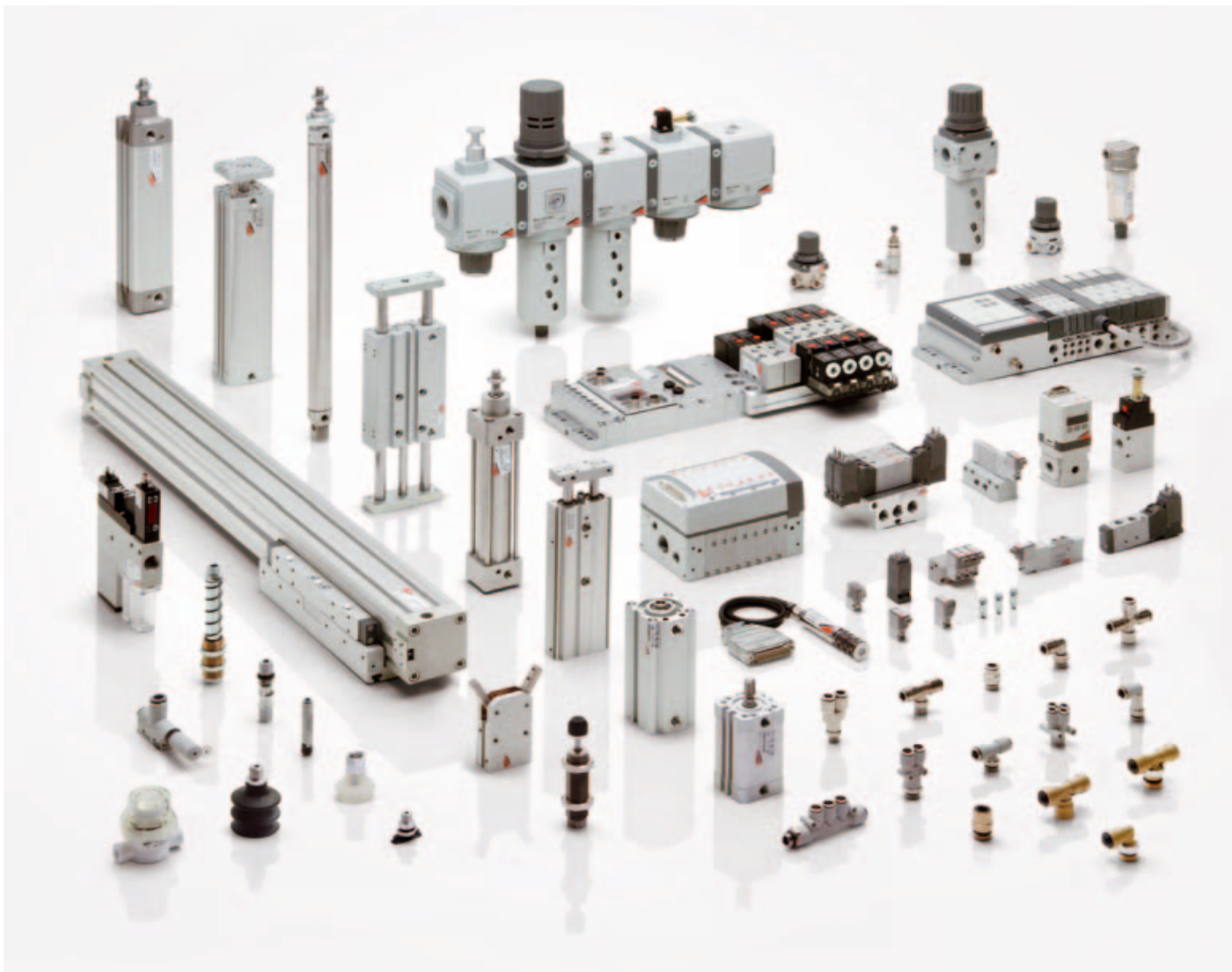
**E:** [sales@spen-bearings.co.uk](mailto:sales@spen-bearings.co.uk) **W:** [www.spen-bearings.co.uk](http://www.spen-bearings.co.uk)

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**Keighley:** Station Works, Parkwood Street, Keighley, West Yorkshire, BD21 4NQ

**Leeds:** Unit4, Enterprise Court, Pit Lane, Micklefield, West Yorkshire, LS25 4BU

**iADA**



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*Welcome to the world of Camozzi*

CAMOZZI IS ONE OF THE WORLD'S LEADING SUPPLIERS OF ADVANCED PNEUMATIC COMPONENTS AND SYSTEMS WITH REPRESENTATION IN OVER 70 COUNTRIES SPANNING ALL FOUR CONTINENTS. IN SUCH A COMPETITIVE MARKET WE RECOGNIZE THE NEED TO BE DIFFERENT, SO WE HAVE STOOD OUT FROM THE CROWD FOR IN EXCESS OF 40 YEARS BY OFFERING ONLY THE HIGHEST QUALITY PRODUCTS WHICH ARE SUPPORTED BY A FULL RANGE OF SERVICES.

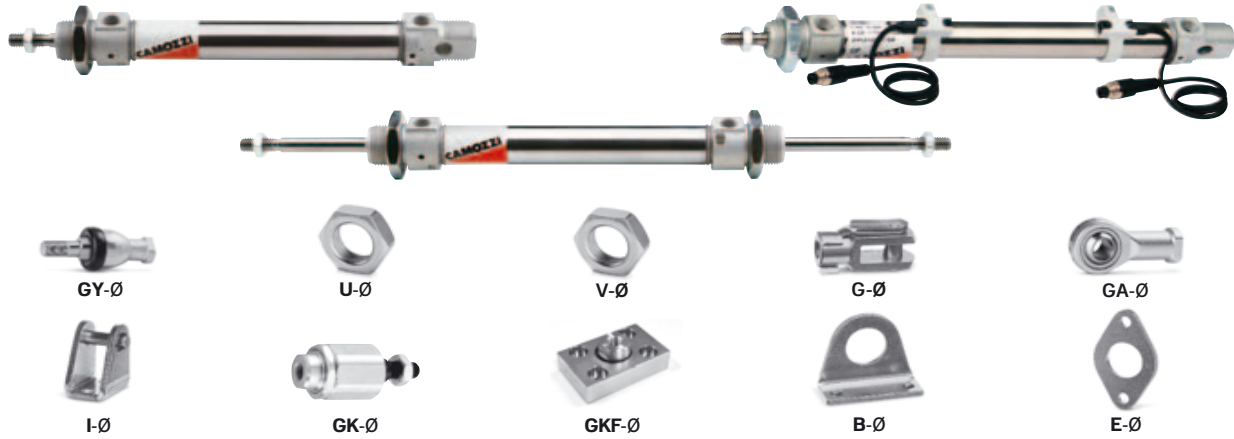
[www.camozzi.co.uk](http://www.camozzi.co.uk)



## Series 16, 24 and 25 Mini-Cylinders

Single and double-acting (Cetop RP52-P DIN/ISO 6432)

Series 16:  $\varnothing$  8 - 10 - 12 Series 24:  $\varnothing$  16 - 20 - 25 - magnetic Series 25:  $\varnothing$  16 - 20 - 25 - magnetic cushioned



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### CODING EXAMPLE

**24 N 2 A 16 A 100**

**24** » SERIES  
 16 = non-magnetic  
 24 = magnetic  
 25 = magnetic, adjustable cushioning

**N** » VERSION  
 N = Standard

**2** » OPERATION  
 1 = single-acting, front spring, no cushion  
 2 = double-acting  
 3 = double-acting, through-rod  
 7 = single-acting, through-rod

**A** » MATERIALS  
 rod = rolled stainless steel AISI 303  
 tube = stainless steel AISI 304  
 end-blocks = anodized AL

**16** » BORE  
 08 =  $\varnothing$  8 mm      12 =  $\varnothing$  12 mm      20 =  $\varnothing$  20 mm  
 10 =  $\varnothing$  10 mm      16 =  $\varnothing$  16 mm      25 =  $\varnothing$  25 mm

**A** » CONSTRUCTION  
 A = screw with ring + lock nut for rod  
 RL = cylinder with rod lock  $\varnothing$ 20 -  $\varnothing$ 25

**100** » STROKE  
 Series 16:  $\varnothing$ 8-10 = 10-250 mm /  $\varnothing$ 12 = 10-300 mm  
 Series 24-25:  $\varnothing$ 16 = 10-600 mm /  $\varnothing$ 20-25 = 10-1000 mm

» = standard  
 V = rod seals in FKM

### STANDARD STROKES FOR MINICYLINDERS SERIES 16-24-25

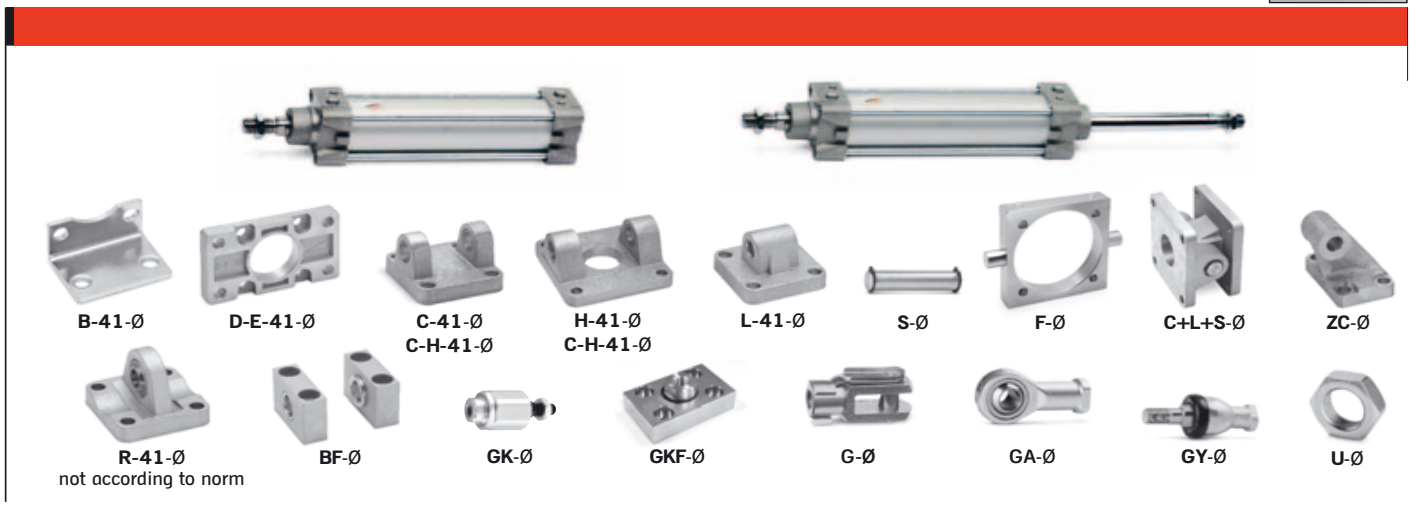
■ Double-acting  
 \* Single-acting

standard strokes		10	25	40	50	80	100	125	160	200	250	300	320	400	500
series	$\varnothing$														
16	8	■*	■*	■*	■*	■	■	■	■	■					
16	10	■*	■*	■*	■*	■	■	■	■	■					
16	12	■*	■*	■*	■*	■	■	■	■	■					
24	16	■*	■*	■*	■*	■	■	■	■	■	■	■	■	■	■
24	20	■*	■*	■*	■*	■	■	■	■	■	■	■	■	■	■
24	25	■*	■*	■*	■*	■	■	■	■	■	■	■	■	■	■
25	16	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	20	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	25	■	■	■	■	■	■	■	■	■	■	■	■	■	■



## Series 60 Cylinders

Single and double-acting, magnetic, cushioned Standard and low friction versions  
 ø 32 - 40 - 50 - 63 - 80 - 100 - 125 (ISO 15552)



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### CODING EXAMPLE

**60 M 2 L 050 A 0200**

**60** » SERIES

**M** » VERSION  
**M** = magnetic L = low friction  
**N** = non magnetic

**2** » OPERATION  
 1 = single-acting, front spring  
 2 = double-acting\*, front and rear cushioned  
 3 = double-acting\*, no cushion  
 4 = double-acting\*, rear cushioned  
 5 = double-acting\*, front cushioned  
 6 = double-acting\*, through-rod, front and rear cushioned  
 7 = single-acting, through-rod  
 \* all double-acting cylinders are also available in the low friction version

**L** » MATERIALS  
**L** = rolled stainless steel rod AISI 420B - anodised aluminium round tube - NBR seals - nuts and tie-rods zinc-plated steel - rod seals polyurethane  
**T** = stainless steel AISI 420B tie-rods - stainless steel AISI 303 tie-rod nuts  
**C** = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut  
**U** = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts  
**W** = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts

**050** » BORE  
 032 = ø 32 mm      **050** = ø 50 mm      080 = ø 80 mm      125 = ø 125 mm  
 040 = ø 40 mm      063 = ø 63 mm      100 = ø 100 mm

**A** » CONSTRUCTION  
**A** = standard with lock nut for rod  
**RL** = cylinder with rod lock  
**F** = cylinder with centre trunnion

**0200** » STROKE  
 10-2500 mm

» = standard  
**V** = FKM rod seal  
**R** = NBR rod seal  
**W** = all FKM seals -130C°  
**L** = low friction version without rod seal (rear supply only) \*\*  
 ( \_ \_ \_ ) = extended piston rod \_ \_ \_ mm  
 \*\* The possibility to order the cylinder without piston rod seal, further reduces the friction force, (this configuration is possible in applications where the cylinder is pressurized in the rear chamber only)

### STANDARD STROKES FOR CYLINDERS SERIES 60

■ Single-acting (standard versions)  
 \* Double-acting (standard and low friction versions)  
 Other strokes up to 2500 mm are available on request.

standard strokes

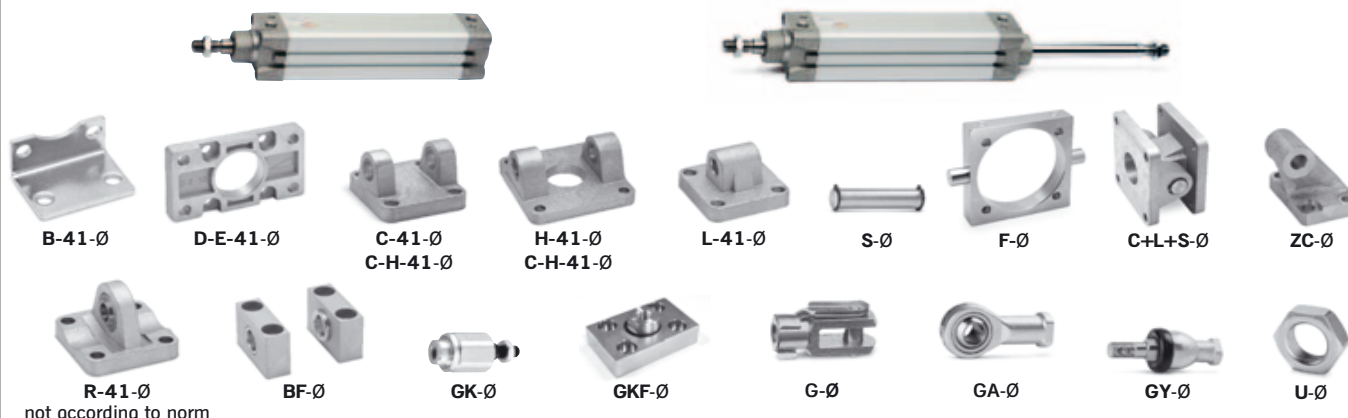
ø	25	50	75	100	125	150	160	200	250	300	320	400	500
32	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
40	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
50	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
63	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
80	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
100		■*	■*	×	×	×	×	×	×	×	×	×	×
125		×	×	×	×	×	×	×	×	×	×	×	×

## Series 61 Cylinders - Aluminium Profile

Single and double-acting, magnetic, cushioned Standard and low friction versions  
 ø 32 - 40 - 50 - 63 - 80 - 100 - 125 (ISO 15552)



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not according to norm

### CODING EXAMPLE

**61** | **M2** | **P** | **050** | **A** | **0200** |

<b>61</b>	» SERIES
<b>M</b>	» VERSION M = standard, magnetic    L = low friction
<b>2</b>	» OPERATION 1 = single-acting, front spring (ø 32 ± ø 100) 2 = double-acting*, front and rear cushioned 3 = double-acting*, no cushion 4 = double-acting*, rear cushioned 5 = double-acting*, front cushioned 6 = double-acting*, through-rod, front and rear cushioned 7 = single-acting, through-rod * all double-acting cylinders are also available in the low friction version
<b>P</b>	» MATERIALS P = rolled stainless steel rod, AISI 420B anodised profile aluminium tube NBR seals - rod seals polyurethane, nuts and tie-rods zinc-plated steel R = stainless steel AISI 420B tie-rods - stainless steel AISI 303 tie-rod nuts C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts
<b>050</b>	» BORE 032 = ø 32 mm <b>050</b> = ø 50 mm      080 = ø 80 mm      125 = ø 125 mm 040 = ø 40 mm      063 = ø 63 mm      100 = ø 100 mm
<b>A</b>	» CONSTRUCTION A = standard with rod nut      RL = cylinder with rod lock
<b>0200</b>	» STROKE 10-2500 mm
	» = standard      W = all FKM seals + 130 C° V = FKM rod seal      L = low friction version without rod seal (rear supply only) ** R = NBR rod seal      ( _ _ _ ) = extended piston rod _ _ _ mm ** The possibility to order the cylinder without piston rod seal, further reduces the friction force, (this configuration is possible in applications where the cylinder is pressurized in the rear chamber only)

### STANDARD STROKES FOR CYLINDERS SERIES 61

■ Single-acting (standard versions)  
 \* Double-acting (standard and low friction versions)  
 Other strokes up to 2500 mm are available on request

standard strokes	ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
40	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
50	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
63	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
80	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
100	ø		■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
125	ø		■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*



## Cylinder Problem? The Solution Is Here. . .



**The Fastest Cylinder Breakdown Service**  
**Replacements made in as little as one hour!**

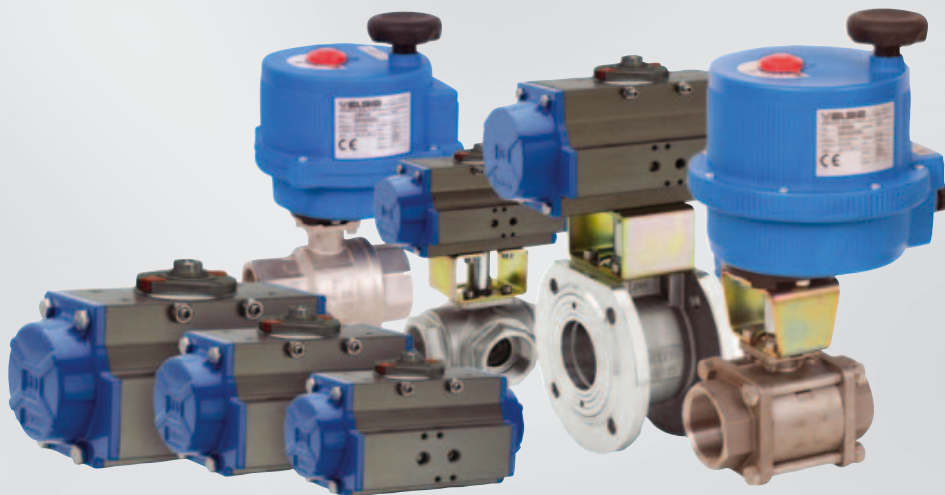


Standard and Non-Standard Strokes

Includes Many Cylinder Types

Totally Flexible Delivery and Collection Options Available

## Actuated Valve Assemblies



**SAME DAY DESPATCH**  
**Try the service today!**



Pneumatic and Electric Actuators

Single and Double Acting

Comprehensive Range of Valves (Ex-Stock)

Fully Assembled and Tested



## Series 4 Valves and Solenoid Valves

3/2, 5/2 and 5/3 way CC CO CP

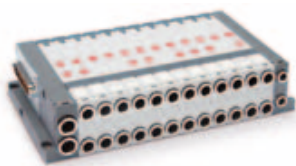
Connections: 1/8, 1/4 and 1/2 Coils sold separately. Full range available.

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 438-015-22	 438-011-22	 458-015-22	 458-011-22
 434-015-22	 434-011-22	 454-015-22	 454-011-22
 438-35	 458-35	 438-33	 458-33
 434-35	 454-35	 434-33	 454-33

Full Range Available:

Valve Islands



Mechanical and Manual Valves



Flow Control Valves



Automatic Valves



## Series MX Filter-Regulators

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



### CODING EXAMPLE

**MX2 - 3/8 - FR0004**

<b>MX</b>	» SERIES	
<b>2</b>	» SIZE	2 = 3/8 - 1/2 - 3/4      3 = 3/4 - 1
<b>3/4</b>	» CONNECTIONS	3/8 = 3/8      3/4 = 3/4 1/2 = 1/2      1 = 1
<b>FR</b>	» FILTER-REGULATOR	
<b>0</b>	» FILTERING ELEMENT WITH DESIGN TYPE	0 = 25 µm with relieving (standard) 1 = 5 µm with relieving 2 = 25 µm without relieving (with semiautomatic-manual drain only) 3 = 5 µm without relieving (with semiautomatic-manual drain only)
<b>0</b>	» DRAINING OF CONDENSATE*	0 = manual semiautomatic drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = no drain with connections 1/8
<b>0</b>	» OPERATING PRESSURE (1 bar = 14.5 psi)	0 = 0.5 - 10 bar (standard)      7 = 0.5 - 7 bar (MX2 only) 4 = 0 - 4 bar
<b>4</b>	» PRESSURE GAUGE	0 = without pressure gauge(with threaded connection) 2 = with built-in pressure gauge 0-6 and working pressure 0 - 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 - 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 - 10 bar (standard)

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## Air Treatment Box Sets

### Complete Filter-Regulator Set with Bracket and Gauge

Integrated Gauge Version	
Size	Part No
3/8	MX2-FR-3/8-KIT-IG
1/2	MX2-FR-1/2-KIT-IG

External Gauge Version	
Size	Part No
1/4	FR 1/4 KIT
3/8	MX2-FR-3/8-KIT-EG
1/2	MX2-FR-1/2-KIT-EG

High Performance

Reduced Installation and Maintenance Time

Compact and Light Weight



## Series MX Filters

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting

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### CODING EXAMPLE

**MX2 - 3/8 - F00**

<b>MX</b>	» SERIES
<b>2</b>	» SIZE 2 = 3/8 - 1/2 - 3/4    3 = 3/4 - 1
<b>3/8</b>	» CONNECTIONS 3/8 = 3/8                      3/4 = 3/4 1/2 = 1/2                      1 = 1
<b>F</b>	» FILTER
<b>0</b>	» FILTERING ELEMENT 0 = 25 µm (standard) 1 = 5 µm
<b>0</b>	» DRAINING OF CONDENSATE* 0 = semiautomatic-manual drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = no drain with connection 1/8

## Series MX Pressure Regulators

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Manifold Connections: 1/2 (MX2 only)  
Modular - Available with built-in pressure gauges or with connection for gauges



### CODING EXAMPLE

**MX2 - 3/4 - R004**

<b>MX</b>	» SERIES
<b>2</b>	» SIZE 2 = 3/8 - 1/2 - 3/4    3 = 3/4 - 1
<b>3/8</b>	» CONNECTIONS 3/8 = 3/8                      1/2 = 1/2 3/4 = 3/4                      1 = 1
<b>R</b>	» TYPE OF REGULATOR R = pressure regulator M = Manifold pressure regulator (MX2 - 1/2 only)
<b>0</b>	» OPERATING PRESSURE (1 bar = 14.5 psi) 0 = 0.5 - 10 bar (standard) 4 = 0 - 4 bar 7 = 0.5 - 7 bar (only MX2)
<b>0</b>	» DESIGN TYPE 0 = relieving (standard) 1 = without relieving
<b>4</b>	» PRESSURE GAUGE 0 = without pressure gauge (with threaded connection for gauges) 2 = with built-in pressure gauge 0-6 and working pressure 0 - 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 - 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 - 10 bar (standard)

## Series MX Lubricators

Connections: MX2 - 3/8, 1/2, 3/4 - MX3 - 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



### CODING EXAMPLE

**MX2 - 3/8 - L00**

<b>MX</b>	» SERIES
<b>2</b>	» SIZE 2 = 3/8 - 1/2 - 3/4    3 = 3/4 - 1
<b>3/8</b>	» CONNECTIONS 3/8 = 3/8                      1/2 = 1/2 3/4 = 3/4                      1 = 1
<b>L</b>	» LUBRICATOR
<b>00</b>	» DESIGN TYPE 00 = atomized oil

## Series N Filters and Coalescing Filters

Connections: 1/8 and 1/4  
With screw-on transparent bowl



### CODING EXAMPLE

**N204 - F00**

<b>N</b>	» SERIES
<b>2</b>	» SIZE 1 = small bowl      2 = standard bowl
<b>04</b>	» CONNECTION 08 = 1/8              04 = 1/4
<b>F</b>	» FILTER
<b>0</b>	» FILTERING ELEMENT 0 = 25 µm (standard) 1 = 5 µm B = 0.01 µm
<b>0</b>	» DRAINING OF CONDENSATE* 0 = manual - semiautomatic drain 4 = depressurisation only standard bowl (2) 5 = depressurisation, protected only standard bowl (2) 8 = no drain, connection 1/8

## Series N Pressure Regulators

Connection: 1/8 and 1/4



### CODING EXAMPLE

**N1204 - R00**

<b>N</b>	» SERIES
<b>12</b>	» SIZE
<b>04</b>	» CONNECTION 08 = 1/8              04 = 1/4
<b>R</b>	» REGULATOR
<b>0</b>	» OPERATING PRESSURE 0 = 0.5 - 10 bar (standard) 1 = 0 - 4 bar 2 = 0 - 2 bar (1/4 only) 7 = 0.5 - 7 bar (1/4 only)
<b>0</b>	» DESIGN TYPE 0 = self-relieving 1 = non-relieving

## Series N Lubricators

Connections: 1/8 and 1/4  
With transparent bowl



### CODING EXAMPLE

**N204 - L00**

<b>N</b>	» SERIES
<b>2</b>	» SIZE 1 = small bowl      2 = standard bowl
<b>04</b>	» CONNECTIONS 08 = 1/8    04 = 1/4
<b>L</b>	» LUBRICATOR
<b>00</b>	» DESIGN TYPE 00 = atomized oil

## Series N Filter-Regulators

Connections: 1/8 and 1/4  
With transparent bowl



### CODING EXAMPLE

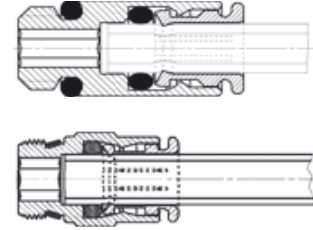
**N204 - D00 - 4**

<b>N</b>	» SERIES
<b>2</b>	» SIZE 1 = small bowl      2 = standard bowl
<b>04</b>	» CONNECTIONS 08 = 1/8    04 = 1/4
<b>D</b>	» FILTER-REGULATOR
<b>0</b>	» FILTERING ELEMENT 0 = 25 µm standard 1 = 5 µm
<b>0</b>	» DRAINING OF CONDENSATE* 0 = semiautomatic, self-relieving 1 = semiautomatic, non-relieving 4 = depressurisation, self-relieving only standard bowl (2) 5 = depressurisation, protected self-relieving, only standard bowl (2) 8 = Connection 1/8, self-relieving
<b>4</b>	» OPERATING PRESSURE = 0.5 - 10 bar 2 = 0 - 2 bar (G1/4) 4 = 0 - 4 bar 7 = 0.5 - 7 bar (G1/4)

## Series 6000 Super-Rapid Fittings for Plastic Tubes

Tube external diameters: 3 (Micro only), 4, 5, 6, 8, 10, 12, 14, 16 mm  
Threaded connections: M3 (Micro only), M5, M7, 1/8, 1/4 3/8, 1/2, R1/8, R1/4, R3/8, R1/2

Super-rapid fittings Series 6000 are available in 35 different models.  
Super-rapid fittings Series 6000 Micro are available in 14 different models.  
Connection and disconnection of the tube can be repeated several times and can be performed without the use of tools.  
The extractable internal collet allows the sealing ring (O-ring) to be easily replaced if it is damaged or in case of wear of the rubber compound.



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### Sprint®



- S6510 4-1/8 S6510 10-1/4
- S6510 4-1/4 S6510 10-3/8
- S6510 5-1/8 S6510 10-1/2
- S6510 5-1/4 S6510 12-1/4
- S6510 6-1/8 S6510 12-3/8
- S6510 6-1/4 S6510 12-1/2
- S6510 6-3/8 S6510 14-3/8
- S6510 8-1/8 S6510 14-1/2
- S6510 8-1/4 S6510 16-1/2
- S6510 8-3/8 S6510 16-3/4
- S6510 8-1/2

Male Connector



° = with 2661 Assembled  
\* = with O-Ring Assembled  
\*Y = with O-Ring Assembled  
It can be connected also to valve islands Series Y



With O-Ring Assembled

- 6512 3-M3°
- 6512 3-M5\*
- 6512 4-M7-M\*
- 6512 4-1/8-M\*Y
- 6512 6-M7-M\*
- 6512 6-1/8-M\*Y
- 6512 8-1/8-M\*Y
- 6512 10-1/4-M\*
- 6512 4-M5
- 6512 4-M6
- 6512 4-1/8
- 6512 4-1/4
- 6512 5-M5
- 6512 6-M5
- 6512 6-1/8
- 6512 6-1/4
- 6512 8-1/8
- 6512 8-1/4
- 6512 8-3/8
- 6512 10-1/4
- 6512 10-3/8
- 6512 12-1/4
- 6512 12-3/8

- 6463 4-M5
- 6463 4-1/8
- 6463 5-1/8
- 6463 6-1/8
- 6463 6-1/4
- 6463 8-1/8
- 6463 8-1/4
- 6463 10-1/4



Female Stud

### Sprint®



Swivel Elbow

- S6520 4-1/8 S6520 8-1/2
- S6520 4-1/4 S6520 10-1/4
- S6520 5-1/8 S6520 10-3/8
- S6520 5-1/4 S6520 10-1/2
- S6520 6-1/8 S6520 12-1/4
- S6520 6-1/4 S6520 12-3/8
- S6520 6-3/8 S6520 12-1/2
- S6520 8-1/8 S6520 14-3/8
- S6520 8-1/4 S6520 14-1/2
- S6520 8-3/8



Swivel Elbow  
with O-Ring Assembled

- 6522 4-M5
- 6522 4-1/8
- 6522 4-1/4
- 6522 5-M5
- 6522 6-M5
- 6522 6-1/8
- 6522 6-1/4
- 6522 8-1/8
- 6522 8-1/4
- 6522 8-3/8
- 6522 10-1/4
- 6522 10-3/8
- 6522 12-1/4
- 6522 12-3/8

### Sprint®



Fixed Male Elbow-Taper

- S6500 4-1/8
- S6500 4-1/4
- S6500 5-1/8
- S6500 5-1/4
- S6500 6-1/8
- S6500 6-1/4
- S6500 8-1/8
- S6500 8-1/4
- S6500 8-3/8
- S6500 10-1/4
- S6500 10-3/8
- S6500 12-1/4
- S6500 12-3/8

### Sprint®



Extended Swivel Elbow

- 6525 6-1/8
- 6525 6-1/4
- 6525 8-1/8
- 6525 8-1/4



With 2661 assembled

- 6501 4-M5

## Full Range Available:

Super-Rapid Compact™ Fittings in Technopolymer Series 7000



Pipe Fittings Series 2000 / BSPT Adaptors



**Sprint®**



- S6430 4-1/8
- S6430 5-1/8
- S6430 5-1/4
- S6430 6-1/8
- S6430 6-1/4
- S6430 8-1/8
- S6430 8-1/4
- S6430 8-3/8
- S6430 10-1/4
- S6430 10-3/8
- S6430 10-1/2
- S6430 12-1/4
- S6430 12-3/8
- S6430 12-1/2
- S6430 14-1/2

Swivel branch tee



Swivel branch tee with O-Ring assembled

- 6432 4-M5
- 6432 4-1/8
- 6432 5-M5
- 6432 6-1/8
- 6432 6-1/4
- 6432 8-1/8
- 6432 8-1/4
- 6432 8-3/8
- 6432 10-1/4
- 6432 10-3/8
- 6432 12-1/4
- 6432 12-3/8

**Sprint®**



- S6440 4-1/8
- S6440 5-1/8
- S6440 6-1/8
- S6440 6-1/4
- S6440 8-1/8
- S6440 8-1/4
- S6440 8-3/8
- S6440 10-1/4
- S6440 10-3/8
- S6440 12-3/8
- S6440 14-1/2

Swivel branch tee



- 6442 4-M5
- 6442 4-1/8
- 6442 5-M5
- 6442 6-1/8
- 6442 6-1/4
- 6442 8-1/8
- 6442 8-1/4
- 6442 8-3/8
- 6442 10-1/4
- 6442 10-3/8
- 6442 12-1/4
- 6442 12-3/8

Swivel branch tee with O-Ring assembled

**Sprint®**



Swivel Y connector  
\*non swivel Model, with 2661 assembled

- 6451 4-M5\*
- 6451 6-M5\*
- S6450 4-1/8
- S6450 6-1/8
- S6450 8-1/8
- S6450 8-1/4



Banjo with O-Ring assembled

- 6622 4-M5
- 6622 4-1/8
- 6622 6-1/8
- 6622 6-1/4
- 6622 8-1/8
- 6622 8-1/4
- 6622 10-1/4



- 6632 4-1/8
- 6632 6-1/8
- 6632 6-1/4
- 6632 8-1/8
- 6632 8-1/4
- 6632 10-1/4

Double Banjo with O-Ring assembled



Double Banjo Ring Connector  
Assembly with 1631, 1635

- 6620 4-M5
- 6620 4-1/8
- 6620 6-1/8
- 6620 6-1/4
- 6620 8-1/8
- 6620 8-1/4



01... = Single Banjo Stem  
02... = Double Banjo Stem  
03... = Triple Banjo Stem

- 1631 01...
- 1631 02...
- 1631 03...



- 6610 4-M5
- 6610 4-M6\*
- 6610 4-1/8
- 6610 5-M5
- 6610 5-M6\*
- 6610 5-1/8
- 6610 6-M5
- 6610 6-M6\*
- 6610 6-1/8
- 6610 6-1/4
- 6610 8-1/8
- 6610 8-1/4
- 6610 8-3/8
- 6610 10- 1/4\*
- 6610 10- 3/8\*
- 6610 12-1/2\*

Models without reference can be always assembled with 1631-1635  
\*Assembly required with SCU, SVU, SCO...M5  
\*Assembly required with 1635

**Sprint®**



Metric Male Adaptor  
\*with O-Ring assembled

- 6811 4-M5\*
- 6811 4-1/8
- 6811 5-1/8
- 6811 5-1/4
- 6811 6-1/8
- 6811 6-1/4
- 6811 8-1/8
- 6811 8-1/4
- 6811 10-1/4
- 6811 10-3/8
- 6811 12-3/8
- 6811 14-1/2



45° Male Elbow

- S6110 6 1/8
- S6110 6 1/4
- S6110 8 1/8
- S6110 8 1/4
- S6110 8 3/8
- S6110 10 1/4
- S6110 10 3/8
- S6110 10 1/2
- S6110 12 1/4
- S6110 12 3/8
- S6110 12 1/2

## Full Range Available:

Tubing & Accessories



QRC Series 5000



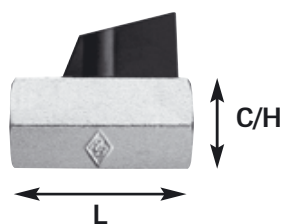
## Ball Valves & Actuators

FLUID POWER

### Mini Ball Valves

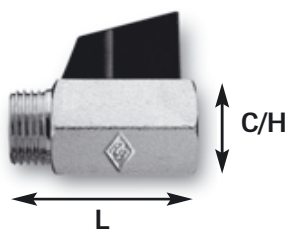
Suitable for most non-corrosive liquids and gases including air, water and fuels. Operating pressure 10 bar (147psi). Operating temperature -20°C to +90°C.

Female/Female



	L	C/H
3830 1/8	41	21
3830 1/4	41	21
3830 3/8	41	21
3830 1/2	46	25

Male/Female

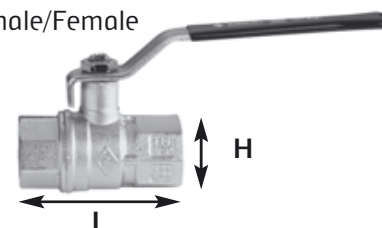


	L	C/H
3831 1/8	41	21
3831 1/4	41	21
3831 3/8	41	21
3831 1/2	46	25

### Brass Ball Valves - Gas/WRAS Approved

Suitable for most non-corrosive liquids and gases including air, water, solvents and fuels. Operating temperature -20°C to +130°C

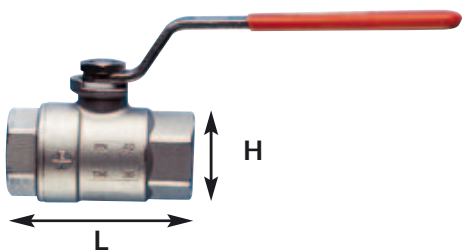
Female/Female



	L	H
6273 1/4	51.5	23
6273 3/8	51.5	23
6273 1/2	59	30
6273 3/4	67	36
6273 1	81.5	43.5
6273 1 1/4	94	53
6273 1 1/2	102.4	65
6273 2	123	80

### Economy Stainless Steel Ball Valves Two-Piece Design

2-Piece stainless steel quarter turn ball valves with all wetted parts stainless steel AISI316. Other metal parts in stainless steel AISI304. Available with NPT threads. (Part No 700023)



	Thread	L	H
70400002	1/4	53.5	30
70400003	3/8	53.5	30
70400004	1/2	60	32.5
70400005	3/4	70	40
70400006	1	79	49
70400007	1 1/4	91	62
70400008	1 1/2	103	75
70400010	2	124	95

### Pneumatically Actuated 2-Way Brass Ball Valves

Full bore, direct mounted actuator, nickel plated brass ball valves (low torque design). Also available in 1/4, 3/8, 2 1/2, 3, 4.



Double Acting

	Thread	Bar
8P007904	1/2	40
8P007905	3/4	40
8P007906	1	40
8P007907	1 1/4	40
8P007908	1 1/2	40
8P007910	2	40



Single Acting

	Thread	Bar
8P008104	1/2	40
8P008105	3/4	40
8P008106	1	40
8P008107	1 1/4	40
8P008108	1 1/2	40
8P008110	2	40

3-Way Option  
Also Available  
(L/T Port)

### Full Range of Accessories Available:

Limit Switch Box



Namur 3/2 and 5/2 Solenoid Valves





Double Acting Actuated Ball Valve Assembly



Single Acting Actuated Ball Valve Assembly



Double Acting Actuator

# ACTUATED BALL VALVES & ACCESSORIES

KELM's™ ongoing investment in technology and resource builds **Trust** and **Confidence** in the marketplace, assuring continuity in all aspects of **Engineering Distinction**.



- Double Acting & Single Acting
- ISO 5211 Mounting Pad
- Rack and Pinion Design
- Long Life
- NAMUR Interface
- Full Bore Valves
- Stainless Steel & Nickel Plated Valves available



Temperature Range:  
-20°C to +80°C



Working Pressure:  
2.5 bar to 8 bar

Please refer to pages 503-507 of our main 2013/14 Fluid Power Catalogue

FLUID POWER

# KELMK<sup>TM</sup> NYLON TUBING

Enhanced Quality Performance

## Metric Flexible Nylon Tubing, Type NT (to BS5409)



Temperature Range:  
-10°C to +80°C

- U.V. Stable
- Silicone Free
- Abrasion Resistant

Tech Sheet  
**3136**

Manufactured from quality grade nylon granules. The properties of this tube make it ideal for use in pneumatic control systems. (Ideally suited for use with push-in fittings).

**Other colours and lengths available on request**

### 30 Metre Coils

5010	OD mm	ID mm	PSI	
NTM04/030	4	3	Natural	300
NTM04/025	4	2.5	Natural	400
NTM04/025N	4	2.5	Black	400
NTM04/025B	4	2.5	Blue	400
NTM04/025G	4	2.5	Green	400
NTM04/025R	4	2.5	Red	400
NTM04/025Y	4	2.5	Yellow	400
NTM05/030	5	3	Natural	400
NTM05/030N	5	3	Black	400
NTM05/030B	5	3	Blue	400
NTM05/030G	5	3	Green	400
NTM05/030R	5	3	Red	400
NTM05/030Y	5	3	Yellow	400
NTM05/033	5	3.3	Natural	300
NTM06/040	6	4	Natural	350
NTM06/040N	6	4	Black	350
NTM06/040B	6	4	Blue	350
NTM06/040G	6	4	Green	350
NTM06/040R	6	4	Red	350
NTM06/040Y	6	4	Yellow	350
NTM06/045	6	4.5	Natural	300
NTM08/060	8	6	Natural	350
NTM08/060N	8	6	Black	350
NTM08/060B	8	6	Blue	350
NTM08/060G	8	6	Green	350
NTM08/060R	8	6	Red	350
NTM08/060Y	8	6	Yellow	350
NTM08/055	8	5.5	Natural	350

### 30 Metre Coils

5010	OD mm	ID mm	PSI	
NTM08/055N	8	5.5	Black	350
NTM10/070	10	7	Natural	300
NTM10/070N	10	7	Black	300
NTM10/070B	10	7	Blue	300
NTM10/070G	10	7	Green	300
NTM10/070R	10	7	Red	300
NTM10/070Y	10	7	Yellow	300
NTM10/080	10	8	Natural	220
NTM10/080N	10	8	Black	220
NTM10/080B	10	8	Blue	220
NTM10/080G	10	8	Green	220
NTM10/080R	10	8	Red	220
NTM10/080Y	10	8	Yellow	220
NTM12/090	12	9	Natural	250
NTM12/090N	12	9	Black	250
NTM12/090B	12	9	Blue	250
NTM12/090G	12	9	Green	250
NTM12/090R	12	9	Red	250
NTM12/090Y	12	9	Yellow	250
NTM12/100	12	10	Natural	200
NTM12/100N	12	10	Black	200
NTM12/100R	12	10	Red	200
NTM14/110	14	11	Natural	250
NTM14/110N	14	11	Black	250
NTM15/120	15	12	Natural	200
NTM16/130	16	13	Natural	200
NTM18/140	18	14	Natural	200
NTM22/170	22	17	Natural	180

### 100 Metre Coils

5010	OD mm	ID mm	PSI	
NTM04/025-100	4	2.5	Natural	400
NTM05/030-100	5	3	Natural	400
NTM06/040-100	6	4	Natural	350
NTM06/040N-100	6	4	Black	350
NTM06/040B-100	6	4	Blue	350
NTM06/040G-100	6	4	Green	350
NTM06/040R-100	6	4	Red	350
NTM06/040Y-100	6	4	Yellow	350
NTM08/060-100	8	6	Natural	350
NTM08/060N-100	8	6	Black	350
NTM08/060B-100	8	6	Blue	350
NTM10/080-100	10	8	Natural	220
NTM10/080N-100	10	8	Black	220
NTM10/080B-100	10	8	Blue	220

### 500 Metre Drums

5010	OD mm	ID mm	PSI	
NTM06/040-500	6	4	Natural	350
NTM06/040-500B	6	4	Blue	350
NTM08/060-500	8	6	Natural	350

**For Polyurethane Tube see page 492 of our main 2013/14 Fluid Power Catalogue**



# PLASTIC & METAL PUSH-IN FITTINGS

FLUID  
POWER

## ONE TOUCH & ONE TOUCH+ 16 bar PUSH-IN FITTINGS

- Convenient One-Touch fittings provide instant connections.
- Elliptical release ring facilitates pneumatic installation in confined spaces.
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube, no special tools required.
- Nickel plated brass threaded body ensures anti-corrosion and anti-contamination.
- All taper threaded fittings are pre-coated with Teflon sealant and require no additional sealing.

### One Touch Construction:

**Resin Body:** PBT  
**Metal Body:** Brass nickel plated  
**Packing:** NBR  
**Back Ring:** POM  
**O-Ring:** NBR  
**Collar:** Nickel plated zinc  
**Sleeve:** POM  
**Locking Claw:** Stainless steel  
**Media:** Air and Vacuum



**Temperature Range:**  
0°C to +60°C\*



**Working Pressure:**  
10 bar (150 psi)

### One Touch+ Construction:

**Resin Body:** Technopolymer Resin  
**Metal Body:** Brass nickel plated  
**Packing:** NBR  
**Back O-Ring:** POM  
**O-Ring:** NBR  
**Collar:** Nickel plated zinc  
**Collet:** Technopolymer Resin  
**Sleeve:** POM  
**Collet Ring:** Brass nickel plated



**Temperature Range:**  
-10°C to +60°C\*



**Working Pressure:**  
-0.8 bar to 16 bar\*

Please refer to pages 460-471 of our main 2013/14 Fluid Power Catalogue

Please refer to pages 472-476 of our main 2013/14 Fluid Power Catalogue

## MICRO & ALL METAL PUSH-IN FITTINGS

- Convenient One-Touch fittings provide instant connections.
- Elliptical release ring facilitates pneumatic installation in confined spaces.
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube, no special tools required.
- Nickel plated brass ensures anti-corrosion and anti-contamination.
- All taper threaded fittings are pre-coated with Teflon sealant and require no additional sealing.

### Micro Construction:

**Resin Body:** PBT  
**Metal Body:** Brass nickel plated  
**Packing:** NBR  
**Back O-Ring:** POM  
**O-Ring:** NBR  
**Collar:** Nickel plated zinc  
**Collet:** PBT  
**Sleeve:** POM  
**Collet Ring:** Brass nickel plated



**Temperature Range:**  
0°C to +60°C\*



**Working Pressure:**  
-0.8 bar to 10 bar\*

### All Metal Construction:

**Resin Body:** Brass nickel plated  
**Packing:** NBR  
**Back O-Ring:** POM  
**O-Ring:** NBR  
**Collet Ring:** Brass nickel plated



**Temperature Range:**  
-10°C to +60°C\*



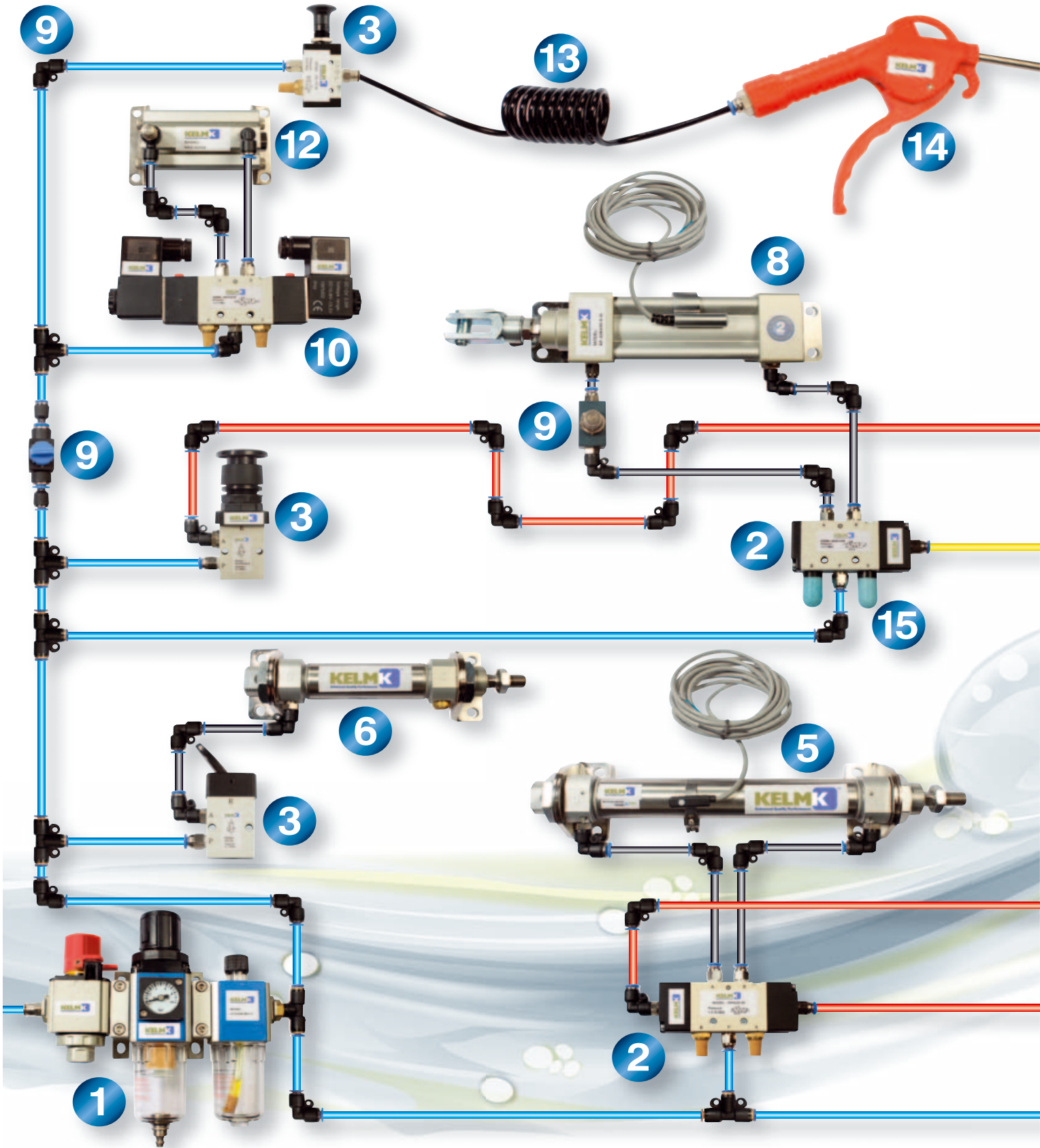
**Working Pressure:**  
0.8 bar to 8 bar\*

Please refer to pages 483-489 of our main 2013/14 Fluid Power Catalogue

Please refer to pages 477-481 of our main 2013/14 Fluid Power Catalogue

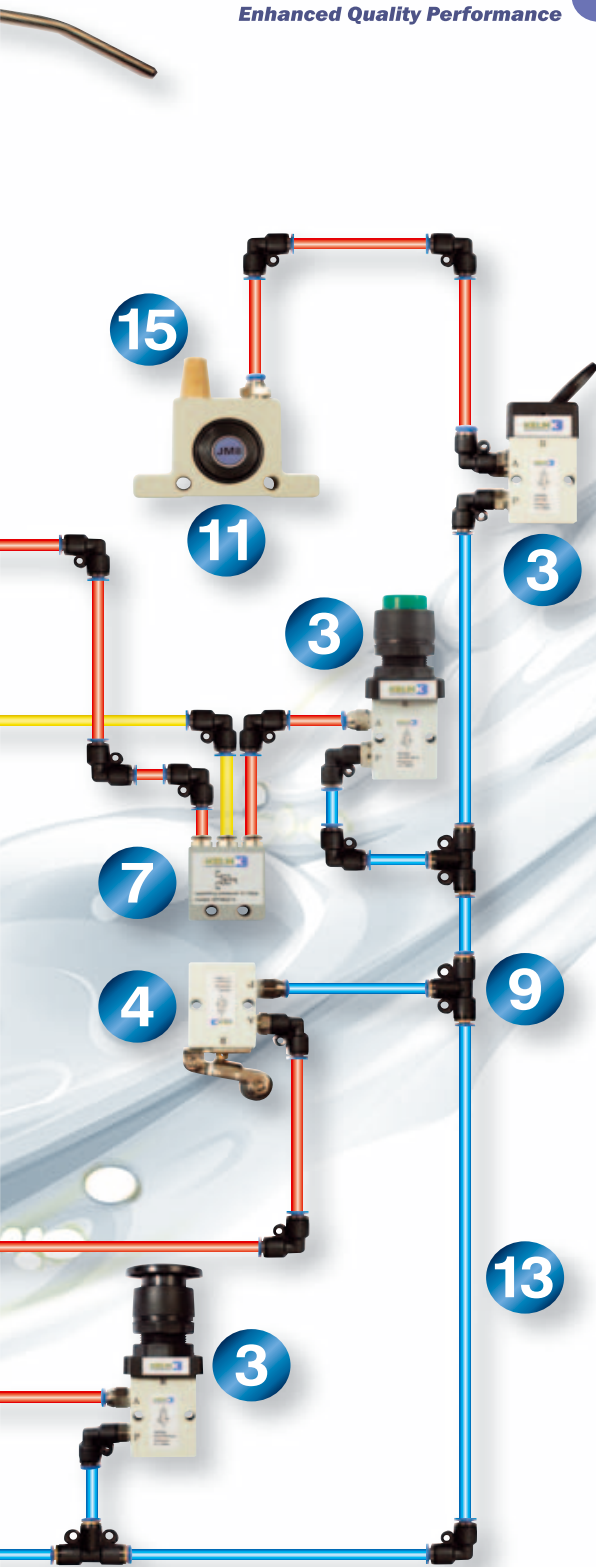
\*Dependent upon tubing specification





# KELMK™ COMPRESSED AIR SYSTEM GUIDE

Enhanced Quality Performance



Please refer to pages of our main 2013/14 Fluid Power Catalogue

<b>1 Air Preparation</b> 1/8" up to 1" – Filters, Regulators and Lubrications.....	416 to 424
<b>2 Pilot Operated Valves</b> 1/8", 1/4", 3/8" and 1/2" - 3/2, 5/2 and 5/3 Valves.....	451 to 452
<b>3 Manual Operated Valves</b> M5, 1/8", 1/4", 3/8", 1/2" and 3/4" - 3/2, 4/2, 4/3, 5/2 and 5/3 Valves.....	446 to 450
<b>4 Mechanical Operated Valves</b> M5, 1/8" and 1/4" - 3/2.....	446 and 449
<b>5 ISO 6432 Mini Cylinders</b> Double Acting Magnetic in Bore Sizes 8mm to 40mm.....	429 to 430
Mounting and Reed Switch to suit.....	430 to 431
<b>6 ISO 6432 Mini Cylinders</b> Single Acting Magnetic in Bore Sizes 8mm to 40mm.....	428
Mounting and Reed Switch to suit.....	430 to 431
<b>7 Logic and Specialist Valves</b> Not, And, Yes, Oscillating, Impulse.....	456 to 458
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Mounting and Reed Switch to suit.....	436 to 438
<b>9 Plastic and Metal Push In Fittings and Flow Restrictors</b> 4mm O.D. up to 12mm O.D. ....	462 to 489
<b>10 Solenoid Operated Valves</b> Single Solenoid and Double Solenoid Valves - M5, 1/8", 1/4", 3/8" and 1/2" - 3/2, 5/2 and 5/3 Valves....	453 to 455
<b>11 Pneumatic Vibrators</b> 1/4" and 3/8" - Ball and Turbine.....	459
<b>12 Compact Magnetic Cylinder</b> Double Acting Magnetic in Bore Sizes 12mm to 100mm... ..	441 to 442
Mounting and Reed Switch to suit.....	443
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FLUID POWER

# Pneumatic Quick Release Couplings

## Series 19KA & Accessories



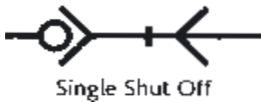
FLUID POWER



Temperature Range:  
-20°C to +100°C  
Standard Seal NBR



Maximum Static Working Pressure:  
PB 35 bar (500 PSI)



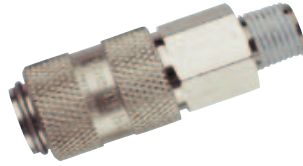
**Interchangeability:**  
Standard PCL Series

**Material:**  
Steel Nickel Plated, Buna Seal  
(Standard Series Coupling)

**Application:**  
General Purpose Pneumatic  
Coupling, Original PCL

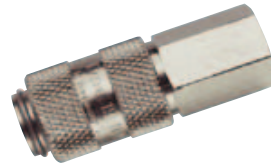
Tech Sheet  
**505**

### Couplings



Male Thread, BSPT

1910		mm	L mm
19KAAK13MPX	1/4"	19	63
19KAAK17MPX	3/8"	19	63
19KAAK21MPX	1/2"	22	68



Female Thread, BSPP

1910		mm	L mm
19KAIW13MPX	1/4"	19	58
19KAIW17MPX	3/8"	19	58
19KAIW21MPX	1/2"	24	60



Hose Tail

1910	To Suit Hose I.D.	mm	L mm
19KATF06MPX	6mm (1/4")	19	76
19KATF08MPX	8mm (5/16")	19	76
19KATF10MPX	10mm (3/8")	19	76
19KATF13MPX	13mm (1/2")	19	76

### Plugs



Male Thread, BSPT

1910		mm	L mm
19SFAK13SXN	1/4"	14	50
19SFAK17SXN	3/8"	17	50
19SFAK21SXN	1/2"	21	57



Female Thread, BSPP

1910		mm	L mm
19SFIW13SXN	1/4"	17	46
19SFIW17SXN	3/8"	17	47
19SFIW21SXN	1/2"	19	47



Hose Tail

1910	To Suit Hose I.D.	L mm
19SFTF05SXN	5mm	60
19SFTF06SXN	6mm (1/4")	60
19SFTF08SXN	8mm (5/16")	60
19SFTF10SXN	10mm (3/8")	60
19SFTF13SXN	13mm (1/2")	60

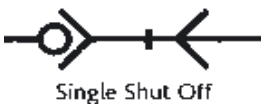
## Series 25KS Safety Lock



Temperature Range:  
-20°C to +100°C  
Standard Seal NBR



Maximum Static Working Pressure:  
PB 35 bar (500 PSI)



**Interchangeability:**  
Cejin 320

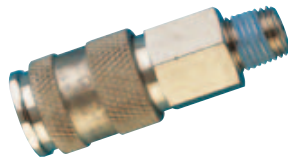
**Flow Rate:**  
1800 L/Min

**Material:**  
Brass Nickel Plated

**Application:**  
General Purpose Pneumatic  
Coupling Euro Standard Design

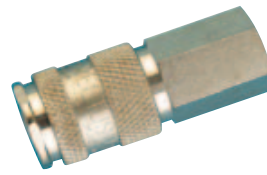
Tech Sheet  
**514**

### Couplings



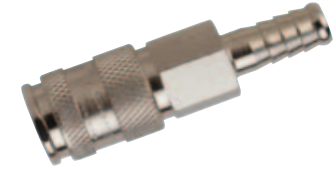
Male Thread, BSPT

2510		mm	L mm
25KAAK13MPN	1/4"	19	60
25KAAK17MPN	3/8"	19	60
25KAAK21MPN	1/2"	22	61



Female Thread, BSPP

2510		mm	L mm
25KAIW13MPN	1/4"	19	56
25KAIW17MPN	3/8"	19	55
25KAIW21MPN	1/2"	24	58



Hose Tail

2510	To Suit Hose I.D.	mm	L mm
25KATF06MPN	6mm (1/4")	19	74
25KATF08MPN	8mm (5/16")	19	74
25KATF09MPN	9mm	19	74
25KATF10MPN	10mm (3/8")	19	74
25KATF13MPN	13mm (1/2")	19	74



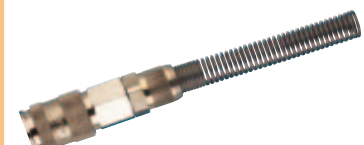
Quick Fit Tube Connection

2510	To Fit Tube Size mm	mm	L mm
25KAKO08MPN	6 x 8	19	60



Panel Mount, Standard Hose Tail

2510	To Suit Hose I.D.	mm	L mm
25KATS06MPN	6mm (1/4")	19	76
25KATS08MPN	8mm (5/16")	19	80
25KATS10MPN	10mm (3/8")	19	87



Quick Fit Tube Connection with Spring Guard

2510	To Fit Tube Size mm	mm	L mm
25KAKK08MPN	6 x 8	19	144
25KAKK10MPN	8 x 10	19	155

# ROTARY ACTUATORS

**NEW**  
INNOVATIVE  
PRODUCTS

- Simple design eliminates the need for maintenance
- Single moving vane with a fixed seal
- Patented static tri-seal
- Pressure assisted seals
- No load full stroke operation with less than 3 psi air supply
- Dual output female drives together with dual ISO mounting pad
- Dual VDI/VDE 3845 mounting pad
- External spring return unit
- Adjustable end stops
- Thrust bearing support of the vane
- Direct NAMUR mount pad for solenoid valve
- Over 1 million cycles



NAMUR  
Solenoid Valve



Double Acting



Single Acting




Please refer to pages 662-666 of our main  
2013/14 Fluid Power Catalogue




# ONE TOUCH EMERGENCY FITTINGS KITS

## PLASTIC PUSH-IN FITTINGS


Convenient, compact boxes containing a selection of popular KELM™ One Touch Plastic Push-in Fittings along with handy tube cutter. Available in three sizes: 6mm, 8mm & 10mm. Can be used with Nylon 6, 11, 12, & Polyurethane (Ester & Ether).

 **Temperature Range:**  
Brass: 0°C to +60°C  
Acetal: 0°C to +60°C  
(dependent upon tubing specification)

 **Maximum Working Pressure:**  
10 bar (150 psi)  
**Negative Pressure:**  
-750mm Hg (10 Torr)  
(dependent upon tubing specification)

**Media:**  
Air & vacuum only.

Plastic Push-in

1060	
KELM-06MMBOX-P	6
KELM-08MMBOX-P	8
KELM-10MMBOX-P	10

Please refer to page 461 of our main 2013/14 Fluid Power Catalogue

**METAL**  
PUSH-IN FITTINGS  
ALSO AVAILABLE

Please refer to page 478 of our main 2013/14 Fluid Power Catalogue



Tech Sheet  
1964

### 6mm Plastic Push-in Fittings & Tube Cutter

**CONTENTS:**

<b>Tube Cutter</b> PXC058 Qty: 1	<b>Equal Tee</b> 2019-8404 Qty: 10	<b>Equal Connector</b> 2019-8305 Qty: 10	<b>Equal Bulkhead</b> 2019-8503 Qty: 2
<b>Equal Elbow</b> 2019-8354 Qty: 8	<b>1/8" BSPP Male Stud Elbow</b> 2028-8247 Qty: 8	<b>1/4" BSPP Male Stud Elbow</b> 2028-8254 Qty: 5	
<b>1/8" BSPT Flow Controller</b> 2022-9852 Qty: 2	<b>1/4" BSPT Flow Controller</b> 2022-9878 Qty: 2	<b>Flow Controller (Unidirectional)</b> 2022-9746 Qty: 2	
<b>1/8" BSPT Male Stud</b> 2019-4965 Qty: 10	<b>1/4" BSPT Male Stud</b> 2019-4973 Qty: 10	<b>Shut-off Valve (Tube x Tube)</b> HVFF06-06 Qty: 2	
<b>M5 BSPT Male Stud</b> 2019-4957 Qty: 5	<b>1/8" BSPP Male Stud</b> 2028-7819 Qty: 10	<b>1/4" BSPP Male Stud</b> 2028-7843 Qty: 10	

### 8mm Plastic Push-in Fittings & Tube Cutter

**CONTENTS:**

<b>Tube Cutter</b> PXC058 Qty: 1	<b>Equal Tee</b> 2019-8412 Qty: 8	<b>Equal Connector</b> 2019-8313 Qty: 10	<b>Equal Bulkhead</b> 2019-8511 Qty: 2
<b>Equal Elbow</b> 2019-8362 Qty: 6	<b>1/8" BSPP Male Stud Elbow</b> 2028-8270 Qty: 6	<b>1/4" BSPP Male Stud Elbow</b> 2028-8288 Qty: 5	
<b>1/8" BSPT Flow Controller</b> 2022-9886 Qty: 2	<b>1/4" BSPT Flow Controller</b> 2022-9894 Qty: 2	<b>Flow Controller (Unidirectional)</b> 2022-9753 Qty: 2	
<b>1/8" BSPT Male Stud</b> 2019-4999 Qty: 10	<b>1/4" BSPT Male Stud</b> 2019-5004 Qty: 10	<b>Shut-off Valve (Tube x Tube)</b> HVFF08-08 Qty: 2	
<b>3/8" BSPT Male Stud</b> 2019-5012 Qty: 5	<b>1/8" BSPP Male Stud</b> 2028-7876 Qty: 10	<b>1/4" BSPP Male Stud</b> 2028-7884 Qty: 10	

### 10mm Plastic Push-in Fittings & Tube Cutter

**CONTENTS:**

<b>Tube Cutter</b> PXC058 Qty: 1	<b>Flow Controller (Unidirectional)</b> 2022-9761 Qty: 2	<b>Equal Connector</b> 2019-8321 Qty: 8
<b>Equal Elbow</b> 2019-8370 Qty: 3	<b>1/8" BSPP Male Stud Elbow</b> 2028-8312 Qty: 3	<b>1/4" BSPP Male Stud Elbow</b> 2028-8320 Qty: 3
<b>1/4" BSPT Flow Controller</b> 2022-9928 Qty: 2	<b>3/8" BSPT Flow Controller</b> 2022-9936 Qty: 1	<b>Equal Tee</b> 2019-8420 Qty: 2
<b>1/8" BSPT Male Stud</b> 2019-5038 Qty: 7	<b>1/4" BSPT Male Stud</b> 2019-5046 Qty: 7	<b>Equal Bulkhead</b> 2019-8529 Qty: 2
<b>3/8" BSPT Male Stud</b> 2019-5053 Qty: 5	<b>1/8" BSPP Male Stud</b> 2028-7926 Qty: 8	<b>1/4" BSPP Male Stud</b> 2028-7934 Qty: 6



# HYDRAULIC HOSE

FLUID  
POWER

- Market tried, tested and wanted
- High performance
- High quality
- Manufactured and tested to stringent international standards
- Competitively priced

JAYMAC has a competitively priced and high quality range of hydraulic hose suitable for all hydraulic applications with working pressures ranging from 40 bar (580 PSI) to 450 bar (6525 PSI), with sizes from 3/16" up to 6" ID.

**The range consists of:**

- SAE100R1AT
- SAE100R2AT
- MSHA approved SAE100R2AT
- EN857-1SC (compact)
- EN857-2SC (compact)
- EN856-4SP
- EN856-4SH
- SAE100R13
- SAE100R15
- SAE100R17
- 100R4
- 100R6
- 100R7 (thermoplastic)
- Wire braid steam hose
- PTFE convoluted and smooth bore
- Thermoplastic paint spray
- Thermoplastic sewer jetting

The range is tried, tested and used extensively through the world's manufacturing facilities and in the mobile plant industry.

**Hose assembly service available From**



If you have any requirements for sizes or types of hose not shown in the catalogue please contact a member of our sales department.

Tech Sheet  
**5000**

# HYDRAULIC HOSE CONNECTORS



## Ferrules



R1AT, Non-skive

0309

To Suit  
Hose  
I.D.

FT1-12-04CF	1/4"
FT1-12-05CF	5/16"
FT1-12-06CF	3/8"
FT1-12-08CF	1/2"
FT1-12-10CF	5/8"
FT1-12-12CF	3/4"
FT1-12-16CF	1"
FT1-12-20CF	1.1/4"
FT1-12-24CF	1.1/2"
FT1-12-32CF	2"



R2AT, Non-skive

0309

To Suit  
Hose  
I.D.

FT2-12-04CF	1/4"
FT2-12-05CF	5/16"
FT2-12-06CF	3/8"
FT2-12-08CF	1/2"
FT2-12-10CF	5/8"
FT2-12-12CF	3/4"
FT2-12-16CF	1"
FT2-12-20CF	1.1/4"
FT2-12-24CF	1.1/2"
FT2-12-32CF	2"



R7

0309

To Suit  
Hose  
I.D.

FR78-03	3/16"
FR78-04	1/4"
FR78-05	5/16"
FR78-06	3/8"
FR78-08	1/2"

## BSP

- Hexavalent chromium free plating.



BSP Male Inserts

0309



To Suit  
Hose  
I.D.

BM0404CF	1/4"	1/4"
BM0604CF	3/8"	1/4"
BM0605CF	3/8"	5/16"
BM0606CF	3/8"	3/8"
BM0608CF	3/8"	1/2"
BM0806CF	1/2"	3/8"
BM0808CF	1/2"	1/2"
BM1010CF	5/8"	5/8"
BM1212CF	3/4"	3/4"
BM1616CF	1"	1"
BM2020CF	1.1/4"	1.1/4"
BM2424CF	1.1/2"	1.1/2"
BM3232CF	2"	2"



BSP Female Swept 90° Inserts

0309



To Suit  
Hose  
I.D.

BF029004CF	1/8"	1/4"
BF049004CF	1/4"	1/4"
BF049005CF	1/4"	5/16"
BF069004CF	3/8"	1/4"
BF069005CF	3/8"	5/16"
BF069006CF	3/8"	3/8"
BF069008CF	3/8"	1/2"
BF089006CF	1/2"	3/8"
BF089008CF	1/2"	1/2"
BF109008CF	3/4"	1/2"
BF109010CF	5/8"	5/8"
BF129008CF	3/4"	1/2"
BF129012CF	3/4"	3/4"
BF169016CF	1"	1"
BF209020CF	1.1/4"	1.1/4"
BF249024CF	1.1/2"	1.1/2"
BF329032CF	2"	2"



BSP Female 90° Compact Inserts

0309



To Suit  
Hose  
I.D.

BF0490C04CF	1/4"	1/4"
BF0690C06CF	3/8"	3/8"
BF0890C08CF	1/2"	1/2"
BF1290C12CF	3/4"	3/4"
BF1690C16CF	1"	1"



BSP Swivel Female Inserts

0309



To Suit  
Hose  
I.D.

BF0203CF	1/8"	3/16"
BF0206CF	1/8"	1/4"
BF0404CF	1/4"	1/4"
BF0405CF	1/4"	5/16"
BF0604CF	3/8"	1/4"
BF0605CF	3/8"	5/16"
BF0606CF	3/8"	3/8"
BF0608CF	3/8"	1/2"
BF0806CF	1/2"	3/8"
BF0808CF	1/2"	1/2"
BF1008CF	5/8"	1/2"
BF1010CF	5/8"	5/8"
BF1208CF	3/4"	1/2"
BF1210CF	3/4"	5/8"
BF1212CF	3/4"	3/4"
BF1616CF	1"	1"
BF2020CF	1.1/4"	1.1/4"
BF2424CF	1.1/2"	1.1/2"
BF3232CF	2"	2"



BSP Female 45° Compact Inserts

0309



To Suit  
Hose  
I.D.

BF044504CF	1/4"	1/4"
BF044505CF	1/4"	5/16"
BF064504CF	3/8"	1/4"
BF064505CF	3/8"	1/2"
BF064506CF	3/8"	3/8"
BF064508CF	3/8"	1/2"
BF084506CF	1/2"	3/8"
BF084508CF	1/2"	1/2"
BF104505CF	5/8"	1/2"
BF104510CF	5/8"	5/8"
BF124508CF	3/4"	1/2"
BF124512CF	3/4"	3/4"
BF164516CF	1"	1"
BF204520CF	1.1/4"	1.1/4"
BF244524CF	1.1/2"	1.1/2"
BF324532CF	2"	2"

## Banjo's



BSP Banjo Bolts

0309



BB04CF	1/4"
BB06CF	3/8"
BB08CF	1/2"
BB12CF	3/4"
BB16CF	1"

BSP Banjo Inserts



0309



To Suit  
Hose  
I.D.

B0404CF	1/4"	1/4"
B0606CF	3/8"	3/8"
B0808CF	1/2"	1/2"
B1212CF	3/4"	3/4"
B1616CF	1"	1"

# JUBILEE® CLAMPS & HOSE CLIPS



## Jubilee® Hose Clips

- Precision engineered for quality, Jubilee clips are Kitemark approved to BS 5315:1991 and manufactured under the BS EN ISO 9002 quality system accepted by the British Standards Institution.
- The mild steel range is zinc protected for corrosion resistance and the stainless steel range is all 304 (A2) material.



Tech Sheet 591

**CONTACT US FOR ANY OTHER JUBILEE PRODUCTS**

### Mild Steel, Zinc Protected

6666	UK size No.	UK min mm	UK max mm
000-MS	000	9.5	12
MOO-MS	MOO	11	16
OO-MS	OO	13	20
O-MS	O	16	22
OX-MS	OX	18	25
1A-MS	1A	22	30
1-MS	1	25	35
1X-MS	1X	30	40
1M-MS	1M	32	45
2A-MS	2A	35	50
2-MS	2	40	55
2X-MS	2X	45	60
3-MS	3	55	70
3X-MS	3X	60	80
4-MS	4	70	90
4X-MS	4X	85	100
5-MS	5	90	120
6-MS	6	110	140
6X-MS	6X	120	150
7-MS	7	135	165
7 1/2-MS	7.1/2	158	190
8 1/2-MS	8.1/2	184	216
9 1/2-MS	9.1/2	210	242
10 1/2-MS	10.1/2	235	267
11 1/2-MS	11.1/2	260	292
12 1/2-MS	12.1/2	286	318

### 304 Stainless Steel

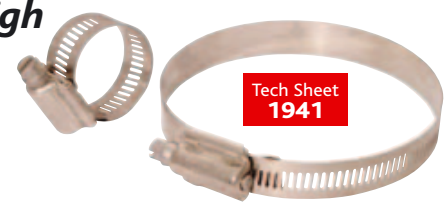
6666	UK size No.	UK min mm	UK max mm
000-SS	000	9.5	12
MOO-SS	MOO	11	16
OO-SS	OO	13	20
O-SS	O	16	22
OX-SS	OX	18	25
1A-SS	1A	22	30
1-SS	1	25	35
1X-SS	1X	30	40
1M-SS	1M	32	45
2A-SS	2A	35	50
2-SS	2	40	55
2X-SS	2X	45	60
3-SS	3	55	70
3X-SS	3X	60	80
4-SS	4	70	90
4X-SS	4X	85	100
5-SS	5	90	120
6-SS	6	110	140
6X-SS	6X	120	150
7-SS	7	135	165
7 1/2-SS	7.1/2	158	190
8 1/2-SS	8.1/2	184	216
9 1/2-SS	9.1/2	210	242
10 1/2-SS	10.1/2	235	267
11 1/2-SS	11.1/2	260	292
12 1/2-SS	12.1/2	286	318

### Boxed Mild Steel, 10 Clips per Box

6666	UK size No.	UK min mm	UK max mm
000-MS-BOX	000	9.5	12
MOO-MS-BOX	MOO	11	16
OO-MS-BOX	OO	13	20
O-MS-BOX	O	16	22
OX-MS-BOX	OX	18	25
1A-MS-BOX	1A	22	30
1-MS-BOX	1	25	35
1X-MS-BOX	1X	30	40
1M-MS-BOX	1M	32	45
2A-MS-BOX	2A	35	50
2-MS-BOX	2	40	55
2X-MS-BOX	2X	45	60
3-MS-BOX	3	55	70

## Jubilee® Stainless Steel High Torque Hose Clips

- Jubilee® High Torque clips for applications that require additional high levels of tightening torque; twice the tightening torque of standard worm drive clips. Recommended tightening torque 17 Nm (150 lb in).
- All stainless steel construction.



Tech Sheet 1941

6666	UK min mm	UK max mm
JHT35	20	35
JHT40	25	40
JHT45	25	45
JHT50	30	50
JHT70	40	70
JHT80	60	80
JHT95	70	95
JHT100	80	100
JHT120	90	120
JHT140	110	140
JHT160	130	160
JHT180	150	180
JHT200	170	200
JHT220	190	220

6666	UK min mm	UK max mm
JHT240	210	240
JHT260	230	260
JHT280	250	280
JHT300	270	300
JHT320	290	320
JHT340	310	340
JHT360	330	360
JHT380	350	380
JHT400	370	400
JHT420	390	420
JHT440	410	440
JHT480	450	480
JHT500	470	500

**Please refer to pages 1094-1095 of our main 2013/14 Fluid Power Catalogue**

FLUID POWER

# High Pressure Washers



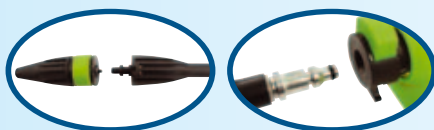
FLUID POWER

- 1500W
- Rated Pressure 70 bar
- Max Pressure 105 bar
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- Auto-stop function, energy saving

- Stable wheel assembly
- Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Wide range of accessories including turbo nozzle
- Advanced pump and motor design



Maximum Working Pressure: 70 bar



Innovative Quick Connectors between hose and gun, gun and machine



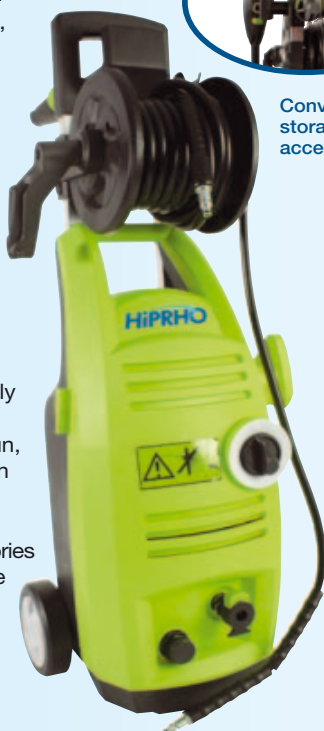
70 bar

0363			
BY01-HBE-70	70	6.5	1.5

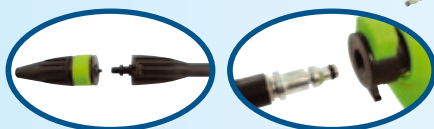
- 1900W
- Rated Pressure 90 bar
- Max Pressure 135 bar
- Portable upright style, one piece machine with handle
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- Auto-stop function, energy saving
- Convenient storage for all accessories
- Stable wheel assembly
- Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Wide range of accessories including turbo nozzle



Convenient storage for all accessories



Maximum Working Pressure: 90 bar



Innovative Quick Connectors between hose and gun, gun and machine

90 bar

0363			
BY01-VBS-90	90	7.0	1.9

- 2000W
- Rated Pressure 110 bar
- Max Pressure 165 bar
- Portable upright style, one piece machine with handle
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- Auto-stop function, energy saving
- Convenient storage for all accessories
- Stable wheel assembly
- Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Advanced pump and motor design
- Built-in chemical tank
- Turbo nozzle
- Variable fan nozzle
- Trigger safety lock



Maximum Working Pressure: 110 bar



110 bar

0363			
HP11860-110BAR	110	7.5	2

Please refer to pages 1172-1173 of our main 2013/14 Fluid Power Catalogue



# CONAH

# HOSE REELS

## Plastic Air & Water Hose Reels

### Mountable High Pressure Water & Air Steel Hose Reels

- Reinforced PVC hose.
- Tough Impact resistant polypropylene construction.
- 180° swivel.
- Self-layering hose guide for perfectly even hose rewinding.
- Speed-controlled return spring.
- Auto-locking mechanism allows easy use of hose at any length.
- Carry handle.
- Lightweight.



 Maximum Working Pressure: 12.4 bar

9 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
<b>ZA02-9</b>	9	5/16"	1/4" BSPT	1/4" BSPT



 Maximum Working Pressure: Air: 17 bar

10 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
<b>ZA04-10B</b>	10	3/8"	1/4" BSPT	1/4" BSPT



 Maximum Working Pressure: Air: 15 bar

15 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
<b>ZA05-15</b>	15	3/8"	1/4" BSPT	1/4" BSPT



 Maximum Working Pressure: Air: 20 bar

20 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
<b>ZA05-20B</b>	20	1/2"	1/2" BSPT	3/8" BSPT

## Metal Air & Water Hose Reels

### Mountable High Pressure Water & Air Steel Hose Reels

- Heavy ribbed steel plate to ensure strong support.
- Spring located in the middle to ensure stability.
- Four direction non snag rollers to reduce hose wear abrasion.
- Adjustable guide arm for multi positional mounting.
- Special swivel joint for easy maintenance and repair.
- Ball bearing swivel joint structure, largely reducing friction.

 Maximum Working Pressure: 20 bar



Spring Rewind, 3/8"

0800				
<b>SAHR-15-38</b>	15m, 3/8" Rubber Air Hose, 3/8" BSPT Connections			
<b>SAHR-15N-38</b>	No Hose, Capacity 15m, 3/8" Rubber Hose			

 Maximum Working Pressure: 20 bar

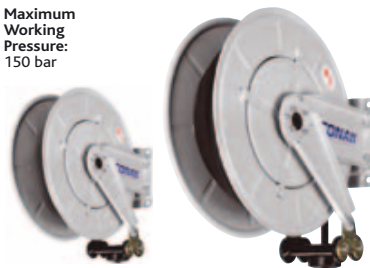


Spring Rewind, 1/2"

0800				
<b>SAHR-15-12</b>	15m, 1/2" Rubber Air Hose, 1/2" Connections			
<b>SAHR-15N-12</b>	No Hose, Capacity 15m 1/2" Rubber Hose			

- Compact for applications with critical space requirement.
- Heavy duty steel construction with corrosion resistant powder coating.
- Four direction non-sag rollers to reduce hose wear abrasion.
- Multi position ratchet lock and easy tension adjustment.
- Spring fully closed and lubricated.
- Full flow swivel
- Adjustable guide arm for multi positional mounting.

 Maximum Working Pressure: 150 bar



Spring Rewind

0800				
<b>SWHR-15-38</b>	15m, 3/8" 1 Wire, 3/8" BSP Inlet - M22x1.5 outlet			
<b>SWHR-15N-38</b>	No Hose, Capacity 15m 3/8" 1 Wire			

 Maximum Working Pressure: 270 bar



Manual Rewind

0800				
<b>SWHR-30-38</b>	30m, 3/8" 2 Wire, M22x1.5 Connections			
<b>SWHR-30N-38</b>	No Hose, Capacity 30m 3/8" 2 Wire			

FLUID POWER

# EAGLE PRO<sup>®</sup>

## High Force Hydraulic Tools & Solutions

- Innovative hydraulic technology
- Extensive product range
- Competitively priced
- Lifetime warranty\*

\*Excludes blades, hoses, electric motors & air pumps



FLUID  
POWER

### Single Acting, Low Height Cylinder with Fixing Holes

Tech Sheet  
10062



#### Features

- Use in confined spaces.
- Complies with ASME B30.1. High strength steel for durability and increased safety.
- Mounting holes permit easy fixing.
- Heavy-duty piston return spring.
- High quality EAB-201 quick couplers.
- Grooved piston end requires no saddle.
- Environmentally friendly painting process provides a durable anti-corrosion finish.

### Double Acting, High Tonnage Cylinder

Tech Sheet  
10068



#### Features

- Complies with ASME B30.1.
- High strength steel for durability and increased safety.
- Double acting operation for fast piston retraction.
- Built-in safety valve prevents accidental over-pressurization.
- High quality EAB-201 quick couplers.
- Collar and piston threads for easy fixing.
- Environmentally friendly painting process provides a durable corrosion resistant finish.

### Hydraulic Pump, Cylinder, Hose & Gauge

Tech Sheet  
10072



#### Features

- Each set comes with a 6 foot hose, a high flow coupler, gauge, and gauge adaptor.
- Cylinders can be used in more applications.
- Monitor the system pressure is provided with the gauge.
- Low weight and high flow pumps provide more effective performance.

### Electric Pumps

Tech Sheet  
10077



#### Features

- Covers most applications in the industry.
- High flow rate reaches 20in<sup>3</sup>/min and 39in<sup>3</sup>/min.
- 10Ft 24V, remote control or solenoid control for operator safety.
- 0.75hp and 1.0 hp motor.
- Starts under full load.
- High strength frame with handle for maximum portability.

### Bottle Jack, In-line Design

Tech Sheet  
10088



#### Features

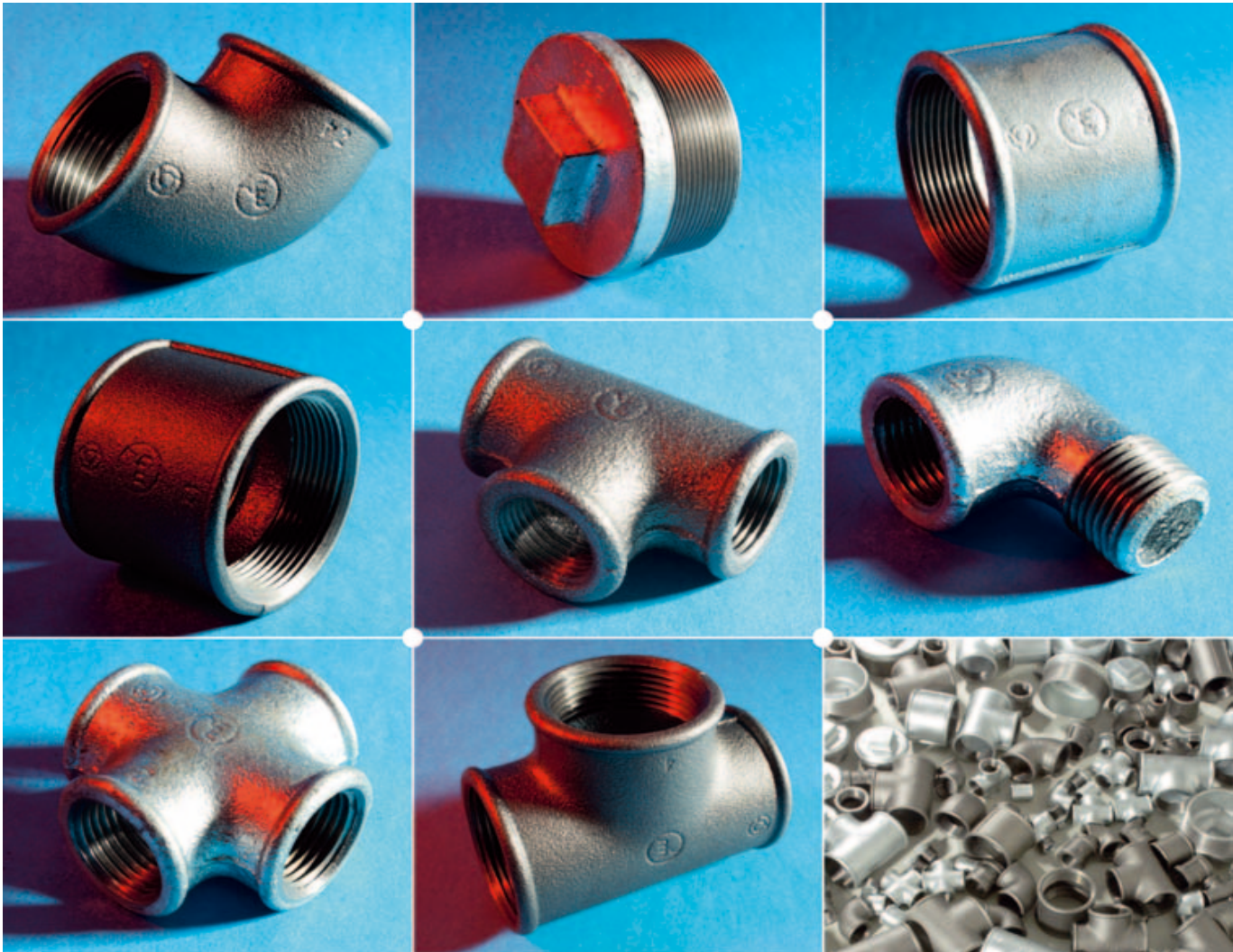
- Complies with ANSI/ASME PALD standards and CE/GS.
- Forged base and cylinder to ensure strength and eliminated leaks.
- Chromed pump piston and ram for added rust resistance.
- In-line design makes the jack more convenient to be positioned and operated.

### Also Available from Eagle Pro

- High Pressure Hoses
- Pull Cylinders
- Tools
- Hydraulic Nut Splitters

Please refer to pages 246-259 of our main 2013/14 Fluid Power Catalogue





FLUID  
POWER



## MALLEABLE IRON FITTINGS

With huge stock holdings of FTM<sup>®</sup> Malleable Iron Pipe Fittings we are able to meet any of your requirements efficiently and on time.

The range is tried, tested and used extensively throughout the world's manufacturing facilities.

**Applications:**

- Construction
- Agriculture
- Mining
- Automotive
- Industrial

Please refer to pages 897-906 of our main 2013/14 Fluid Power Catalogue



# METRIC HYDRAULIC TUBING

## Hydraulic Tubing

Maximum working pressure has been determined according to DIN 2413 scope of application 1, for primarily static load at temperatures up to 120°C. **Please Note:** Due to new legislation governing the use of chromium plating the yellow zinc plated tube will be phased out of the manufacturers production and hence when stocks have been exhausted will be no longer available.

Its replacement will be the Chrome 6 free tube. Chrome 6 free tube will only become available as the yellow zinc plated stocks become exhausted in any particular size.

**3 metre lengths may take up to 48 hours, 6 metre lengths may take up to 5 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply. For full details please contact us.**

Minimum of 10 Lengths is advised upto 8mm to prevent damage in transit.



FLUID POWER

### Bright - DIN 2391/C ST37.4, 3 Metre Lengths

0201	OD mm	mm	bar
HST4X1.0	4	1.0	624
HST6X1.0	6	1.0	365
HST6X1.5	6	1.5	624
HST6X2.0	6	2.0	989
HST8X2.0	8	2.0	624
HST12X2.5	12	2.5	485
HST14X1.5	14	1.5	217
HST14X2.0	14	2.0	303
HST16X2.5	16	2.5	337
HST18X2.0	18	2.0	226
HST18X2.5	18	2.5	300
HST20X2.5	20	2.5	259
HST20X3.0	20	3.0	321
HST20X3.5	20	3.5	388
HST22X1.5	22	1.5	132
HST22X2.0	22	2.0	181
HST25X1.5	25	1.5	115
HST25X2.0	25	2.0	157
HST25X2.5	25	2.5	201
HST25X3.0	25	3.0	257
HST28X1.5	28	1.5	102
HST28X2.5	28	2.5	177
HST28X3.0	28	3.0	217
HST30X2.5	30	2.5	164
HST30X4.0	30	4.0	279
HST35X2.0	35	2.0	109
HST35X2.5	35	2.5	139
HST35X3.0	35	3.0	169
HST35X5.0	35	5.0	303
HST38X3.0	38	3.0	155
HST42X3.0	42	3.0	139
HST42X4.0	42	4.0	190

### Bright - DIN 2391/C ST37.4, 6 Metre Lengths

0201	OD mm	mm	bar
HST4X1.0-6M	4	1.0	624
HST6X1.0-6M	6	1.0	365
HST6X1.5-6M	6	1.5	624
HST6X2.0-6M	6	2.0	989
HST8X2.0-6M	8	2.0	624
HST12X2.5-6M	12	2.5	485
HST14X1.5-6M	14	1.5	217
HST14X2.0-6M	14	2.0	303
HST16X2.5-6M	16	2.5	337
HST18X2.0-6M	18	2.0	226
HST18X2.5-6M	18	2.5	300
HST20X2.5-6M	20	2.5	259
HST20X3.0-6M	20	3.0	321
HST20X3.5-6M	20	3.5	388
HST22X1.5-6M	22	1.5	132
HST22X2.0-6M	22	2.0	181
HST25X1.5-6M	25	1.5	115
HST25X2.0-6M	25	2.0	157
HST25X2.5-6M	25	2.5	201
HST25X3.0-6M	25	3.0	247
HST28X1.5-6M	28	1.5	102
HST28X2.5-6M	28	2.5	177
HST28X3.0-6M	28	3.0	217
HST30X2.5-6M	30	2.5	164
HST30X4.0-6M	30	4.0	279
HST35X2.0-6M	35	2.0	109
HST35X2.5-6M	35	2.5	139
HST35X3.0-6M	35	3.0	169
HST35X5.0-6M	35	5.0	303
HST38X3.0-6M	38	3.0	155
HST42X3.0-6M	42	3.0	139
HST42X4.0-6M	42	4.0	190

### Chrome 6 Free, 3 Metre Lengths

0201	OD mm	mm	bar
HST4X1.0-C6F	4	1	624
HST6X1.0-C6F	6	1	365
HST6X1.5-C6F	6	1.5	624
HST6X2.0-C6F	6	2	989
HST8X1.0-C6F	8	1	259
HST8X1.5-C6F	8	1.5	423
HST8X2.0-C6F	8	2	624
HST10X1.0-C6F	10	1	201
HST10X1.5-C6F	10	1.5	321
HST10X2.0-C6F	10	2	460
HST12X1.0-C6F	12	1	164
HST12X1.5-C6F	12	1.5	259
HST12X2.0-C6F	12	2	365
HST14X1.5-C6F	14	1.5	217
HST14X2.0-C6F	14	2	303
HST15X1.5-C6F	15	1.5	201
HST15X2.0-C6F	15	2	279
HST16X1.5-C6F	16	1.5	187
HST16X2.0-C6F	16	2	259
HST16X2.5-C6F	16	2.5	337
HST16X3.0-C6F	16	3	423
HST18X1.5-C6F	18	1.5	164
HST18X2.0-C6F	18	2	226
HST18X2.5-C6F	18	2.5	300
HST20X2.0-C6F	20	2	201
HST20X2.5-C6F	20	2.5	259
HST20X3.0-C6F	20	3	321
HST20X3.5-C6F	20	3.5	388
HST20X4.0-C6F	20	4	460
HST22X1.5-C6F	22	1.5	132
HST22X2.0-C6F	22	2	181
HST22X2.5-C6F	22	2.5	232
HST25X1.5-C6F	25	1.5	115
HST25X2.0-C6F	25	2	157
HST25X2.5-C6F	25	2.5	201
HST25X3.0-C6F	25	3	247
HST25X4.0-C6F	25	4	347
HST28X1.5-C6F	28	1.5	102
HST28X2.0-C6F	28	2	139
HST28X2.5-C6F	28	2.5	177
HST28X3.0-C6F	28	3	217
HST30X2.5-C6F	30	2.5	164
HST30X3.0-C6F	30	3	201
HST30X4.0-C6F	30	4	279
HST35X2.0-C6F	35	2	109
HST35X2.5-C6F	35	2.5	139
HST35X3.0-C6F	35	3	169
HST35X5.0-C6F	35	5	303
HST38X3.0-C6F	38	3	155
HST38X4.0-C6F	38	4	213
HST42X3.0-C6F	42	3	139
HST42X4.0-C6F	42	4	190
HST50X3.0-C6F	50	3	115
HST50X5.0-C6F	50	5	201
HST50X6.0-C6F	50	6	247

The colour of the product may vary from that illustrated, due to new Health & Safety legislation controlling the use of chromium plating. The new plating will be silver rather than the traditional gold. Mixed stock may be supplied during the manufacturer's transitional period.

Contact us regarding tube manipulation

